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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Marketing Service
Grain Division
Agricultural Research Center
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S U P P L E M E N T
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APPENDIX I

EXPLANATION AND LEGEND OF SYMBOLS

Common names of kinds of weed seeds considered noxious by the State seed laws are listed alphabetically. Synonyms specifically used in certain States are shown following the preferred names. The synonyms are also shown alphabetically with cross-references to the preferred name where listed. Generally, the base root of the name is given first with the modifying term following, for example; Alyssum, hoary. Reading across the chart, the symbols in the columns under the names of States indicate prohibitions, limitations, labeling requirements, and reference to footnotes. Be sure to check exceptions noted below.

Legend of symbols

P = Prohibited

Lb = Label rate per pound of any present

Lb* = Label rate per pound if in excess of certain amounts, see footnotes

Numerals = Label rate per pound of any present, maximum permitted given

Oz = Label rate per ounce of any present

Oz* = Label rate per ounce with exceptions, check footnotes

G* = Label rate per ounce or per pound by groups of kinds given below

* = Special exceptions, check footnotes

Roman numerals = Montana only, see footnotes

2oz = Hawaii only, see footnotes

1% = Hawaii only, see footnotes

Groups of kinds of agricultural seed labeled per ounce or per pound

A = Bentgrasses, redtop, bluegrasses, timothy, bermudagrass, orchardgrass, rhodesgrass, dallisgrass, reed canarygrass, fescues (except meadow fescue), white clover, alsike clover, and seeds of similar size, generally of which 25 or 35 grams are required to be examined for noxious-weed seeds.

B = Ryegrasses, meadow fescue, foxtail millet, wheatgrasses, smooth brome, alfalfa, red clover, sweetclover, lespedezas, mustards, rapes, flax, and seeds of similar size, generally those of which 50 or 100 grams are required to be examined for noxious-weed seeds.

C = Proso millet, sudangrass, and seeds of similar size, generally those of which 150 grams are required to be examined for noxious-weed seeds.

D = Wheat, oat, barley, rye, sorghum, buckwheat, vetches, corn, bean, pea, cowpea, soybean, and seeds of similar size, generally those of which 300 or 500 grams are required to be examined for noxious-weed seeds.

Footnotes by States

Lb* IDAHO - Maximum 45 per pound in groups A and B, 15 per pound in group C, and 5 per pound in group D.

MICHIGAN - Label rate per pound if present in excess of 90 per pound in group A, 20 per pound in group B, 10 per pound in group C,

and 2 per pound in group D. Mixtures, label any present. Note: Smooth brome, flax, and rapes included in group C instead of B. Buckhorn plantain, label only if in excess of 180 per pound in group B. Maximum one noxious-weed seed per 2,000 crop seeds, except one buckhorn plantain seed per 300 crop seeds in group B.

NEVADA - Label rate per pound if any present in excess of 45 per pound in groups A and B, 18 per pound in group C, and 5 per pound in group D. Mixtures, label rate per pound if any present in excess of one in 15 grams. Note: Millets, rapes and flax included in group C instead of B.

NORTH DAKOTA-- Dodder and quackgrass, label rate per pound of any present in excess of 21 per pound. Mustards, frenchweed, wild morningglory, and wild oat, label rate per pound of any present in excess of 31 per pound.

WASHINGTON - Label rate per pound if present in excess of one in 10 grams of group A, one in 25 grams of group B, and one in 100 grams of group D. (No requirements given in law for labeling group C). Note: Meadow fescue included in group A instead of B.

WYOMING - Maximum 45 per pound in groups A, B, and C, and 5 per pound in group D.

Oz* VIRGINIA - Maximums, wild radish one per ounce; wild onion, wild garlic, and bermudagrass 2 per ounce (except wild onion and wild garlic 5 per ounce in orchardgrass); dodder and giant foxtail 4 per ounce; and wild mustards 15 per ounce.

WISCONSIN - Label rate per ounce if present in excess of one seed in the amount required to be examined. Maximums, one per 5 grams if 25 grams examined, one per 10 grams if 35 or 50 grams examined, one per 25 grams if 150 grams examined, one per 50 grams if 300 grams examined, and one per 100 grams if 500 grams examined.

G* DELAWARE - Label rate per ounce in groups A and B per pound in groups C and D. Maximum 10 per ounce and 10 per pound, respectively.

ILLINOIS - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of one in 5 grams of group A, one in 10 grams of group B, one in 25 grams of group C, and one in 100 grams of group D. Maximum, one per 1,000 crop seeds.

IOWA - Label rate per ounce in groups A, B, and C and per pound in group D if present in excess of 5 per ounce of group A, 3 per ounce of group B, one per ounce of group C, and 5 per pound of group D. Lawn seeds, label rate either per ounce or per pound of any present.

MAINE - Label rate per ounce in groups A and B and per pound in groups C and D. Maximum 500 per pound, singly or collectively.

MARYLAND - Label rate per ounce in groups A and B and per pound in groups C and D. Maximum 16 per ounce or 16 per pound, respectively, singly or collectively.

MINNESOTA - Label rate per ounce in groups A and B and per pound in groups C and D. Maximum 2 per ounce or 25 per pound, respectively, singly or collectively.

MISSOURI - Label rate per ounce in groups A, B, and C and per pound in group D if present in excess of 5 per ounce in group A, 3 per ounce in group B, one per ounce in group C, and 5 per pound in group D. Note: Vetches included in group C instead of D.

NEBRASKA-- Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of one in 5 grams of group A or B, one in 25 grams of group C, and one in 100 grams of group D.

NEW HAMPSHIRE - Label rate per ounce in groups A and B and per pound in groups C and D.

NEW JERSEY - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of one in 5 grams of group A, one in 10 grams of group B, one in 25 grams of group C, and one in 100 grams of group D.

NEW MEXICO - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of one in 5 grams of group A, one in 10 grams of group B, one in 25 grams of group C, and one in 100 grams of group D.

OHIO - Label rate per ounce in groups A, B, and C and per pound in group D if present in excess of one in 5 grams of groups A and B, one in 25 grams of group C, and one in 100 grams of group D. Note: Millets, rapes, and flax included in group C instead of B.

PENNSYLVANIA - Label rate per ounce in groups A and B and per pound in groups C and D. Maximum one in 5 grams of groups A and B and one in 100 grams of groups C and D, and johnsongrass seeds not to exceed 5 per pound regardless of the kind of seed.

RHODE ISLAND - Label rate per ounce in groups A and B and per pound in groups C and D.

SOUTH DAKOTA - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of one in 5 grams of

group A, one in 10 grams of group B, one in 25 grams of group C, and one in 100 grams of group D.

UTAH - Label rate per ounce in groups A and B and per pound in groups C and D. Maximum 45 per pound of any one kind.

WEST VIRGINIA - Label rate per ounce in groups A and B and per pound in groups C and D if present in excess of 90 per pound.

2oz HAWAII - Primary noxious-weed seeds, label rate per ounce.
Maximum 2 per ounce singly or collectively.

1% HAWAII - Secondary noxious-weed seeds, label rate per pound.
Maximum one percent, singly or collectively.

ROMAN NUMERALS - MONTANA - Label rate per pound of I (Maximum 9 per pound), of II if present in excess of 9 per pound singly or collectively, and of III if present in excess of 45 per pound singly or collectively. Mixtures, label percentage if any present in excess of 9 per pound.

* ARKANSAS - Red rice, curly indigo, and tall indigo only noxious when occurring in rice seed, and then limited to 15 per pound. Maximum for wild garlic and/or wild onion is 18 per pound in seeds requiring less than 300-gram examinations, and 2 per pound in kinds requiring 300 grams or more to be examined for noxious-weed seeds.

CONNECTICUT- Bedstraw, dock and plantain (other than broad-leaf, blackseed, and buckhorn plantain) not noxious in lawn seed mixtures. Annual bluegrass not noxious in lawn seed mixtures if labeled as a component.

FLORIDA - Maximum of 27 johnsongrass and/or sorghum alnum and 100 per pound of dock seeds (3 species combined).

KANSAS - Cheat or chess limited to 90 per pound except in native grasses, smooth brome, fescues, and orchardgrass, then not to exceed 1,000 per pound.

NEW YORK - Annual bluegrass seeds considered noxious only in lawn seeds, and then only when not labeled as a kind of seed in the mixture.

NORTH CAROLINA - Johnsongrass seed prohibited except in lespedeza seed, then it shall not exceed 100 seeds per pound and the labels shall bear, in red letters, "contains johnsongrass." Dock includes Rumex crispus and/or R. obtusifolius, label rate per pound if any present, maximum 300 per pound.

OKLAHOMA - Johnsongrass includes sorghum alnum and any indistinguishable seeds, limited to 100 per pound except not to exceed 500 per pound in alfalfa and chaffy native grasses. Maximum noxious-weed seeds 500 except 1,000 per pound in chaffy native grasses.

OREGON - Maximum 18 per pound of starthistle (4 species combined).

TENNESSEE - Johnsongrass or any indistinguishable seed is prohibited. Wild onion not to exceed 10 per pound in small grain or vetches and 13 per pound in other kinds. Buckhorn plantain limited to 250 per pound and all others limited to 50 per pound, singly or collectively, in alsike clover, white clover, ladino clover, and red clover seed, subject to other limitations.

TEXAS - Johnsongrass limited to 100 per pound except in seed labeled "pasture mixture," and then also exempt from maximum total of 500.

WEST VIRGINIA - Dodder seeds prohibited except 90 per pound permitted in lespedezas. Wild onion seeds or bulblets prohibited except 90 per pound permitted in orchardgrass seed.

APPENDIX II

HAWAII ONLY

Prohibited

Acuate	Lagascea mollis
Canegrass	Miscanthus japonicus
Gaura	Gaura spp.
Gorse	Ulex europaeus
Kogon	Imperata cylindrica
Loco weed	Astragalus spp. or Oxytropis spp.
Marabu	Dichrostachys nutans
Mile-a-minute vine	Mikania micrantha
Passion flower, winged-leaf	Passiflora pulchella
Pepper, hooked spiked	Piper aduncum
Piripiri	Acaena sanguisorba
Povertygrass	Aristida spp.
Povertyweed	Franseria spp.
Sensitive plant, giant	Mimosa invisa
Snakeroot, white	Eupatorium rugosum
Terongan	Solanum torvum
Torpedograss	Panicum repens
Witchweed	Striga spp.

Primary, label rate per ounce, maximum 2 per ounce

Aramina	Urena lobata
Barbwiregrass	Cymbopogon refractus
Bur bush	Triumfetta bartramia
Crotolaria, long-beaked	Crotolaria longistrostrata
Curse	Climedia hirta
Elephantopus	Elephantopus spp.
Emex	Emex australis or E. Spinosa
Fountaingrass	Pennisetum setaceum
French broom	Cytisus monspessulanus
German ivy	Senecio mikanooides
Hamakua pamakani	Eupatorium riparium
Kahili flower	Grevillea banksii
Malachra	Malachra alceaefolia
Marigold, wild	Tagetes minuta
Maui pamakani	Eupatorium adenophorum
Melastoma	Melastoma malabathricum
Milkweed	Asclepias spp.
Needlegrass	Stipa spp.
Nettle, stinging	Hesperocnide sandwicensis
Rhodomyrtus	Rhodomyrtus tomentosa
Sacramento bur	Triumfetta semitriloba
Scotch broom	Cytisus scoparius
Spanish broom	Spartium junceum

Spikenard, wild
Spurge, toothed
Star bur
West-Indian foxtailgrass

Hyptis suaveolens
Euphorbia serrata
Acanthospermum hispidum
Andropogon bicornis

Secondary, label rate per pound, maximum 1%.

Barley, wild
Black-eyed susan
Jaragua grass
Khaki weed
Knotweed, smartweed or
ladysthumb
Mullein
Sandbur
Stargrass, Australian

Hordeum spp.
Rudbeckia hirta
Hyperrhenia rufa
Alternanthera repens

Polygonum spp.
Verbascum thaspus
Cenchrus spp.
Chloris divaricata

APPENDIX III

Cross-index alphabetically by scientific name

Abutilon theophrasti	butterprint
Acaena sanguisorbia	piripiri
Acanthospermum hispidum	star bur
Aegilops triuncialis	goatgrass
Aeschynomene indica	curly indigo or ding ding
<u>Aeschynomene virginica</u>	
Agropyron repens	quackgrass
Agrostemma githago	corncockle
Alhagi pseudalhagi	camelthorn
<u>Alhagi camelorum</u>	
Allium spp.	wild garlic or wild onion
Allium canadense	wild garlic or wild onion
Allium vineale	wild garlic or wild onion
Alternanthera repens	khaki weed
Ambrosia psilostachya	perennial ragweed
Andropogon bicornis	West-Indian foxtailgrass
Arctium minus	burdock
Aristida spp.	povertygrass
Asclepias spp.	milkweed
Asclepias labriiformis	labriiform milkweed
Asclepias subverticillata	whorled milkweed
Asclepias verticillata	whorled milkweed
<u>Asclepias galioides</u>	
Astragalus spp.	loco weed
Avena fatua	wild oat
Bassia hyssopifolia	fivehook bassia
Barbarea vulgaris	yellow rocket
<u>Campe vulgaris</u>	<u>bitter wintercress</u>
Berberis spp.	barberry
Berteroa incana	hoary alyssum
Brassica spp.	wild mustard
	<u>wild turnip</u>
Brassica campestris	bird rape
Brassica juncea	Indian mustard
Brassica kaber	wild mustard
<u>Brassica arvensis</u>	<u>charlock</u>
Brassica nigra	black mustard
Bromus commutatus	cheat or chess
Bromus secalinus	cheat or chess
Bromus tectorum	downy brome
Calonyction mucronatum	moonflower or giant morningglory
Cannabis sativa	marihuana
Cardania draba	whitetop

Lepidium draba
Lepidium repens
Cardaria pubescens
Hymenophyssa pubescens

Carduus spp.
Carduus nutans
Carduus pycnocephalus
Carduus tenuiflorus

Cenchrus spp.
Cenchrus pauciflorus
Centaurea calcitrapa
Centaurea diffusa
Centaurea iberica
Centaurea maculosa
Centaurea melitensis
Centaurea picris

Centaurea repens
Centaurea solstitialis
Centaurea squarrosa
Chloris divericata
Chorispora tenella

Chrysanthemum leucanthemum
Cicuta spp.
Cirsium arvense
Climedia hirta
Cnicus benedictus
Conium maculatum
Convolvulus spp.
Convolvulus arvensis

Convolvulus sepium

Crotolaria spp.
Crotolaria longistrostrata
Crotolaria mucronate
Crotolaria spectabilis
Cuscuta spp.
Cymbopogon retractus
Cynodon spp.
Cynodon sp.
Cynodon dactylon
Cynoglossum officianale
Cyperus spp.
Cyperus esculentus
Cyperus rotundus

hoary cress
perennial peppergrass
hairy whitetop
whitetop
hoary cress
perennial peppergrass
plumeless thistle
musk thistle or nodding thistle
Italian thistle

sandbur
sandbur
purple starthistle
diffuse knapweed
Iberian starthistle
spotted knapweed
Malta starthistle
Russian knapweed

yellow starthistle
squarrose knapweed
Australian stargrass
blue mustard

tenella
oxeye daisy
water hemlock
Canada thistle
curse
blessed thistle
poison hemlock
bindweed
field bindweed or bindweed

wild morningglory
European morningglory
hedge bindweed
wild morningglory

crotolaria
long-beaked crotolaria
mucronate crotolaria
showy crotolaria
dodder
barbwiregrass
bermudagrass
giant bermudagrass
common bermudagrass
houndstongue
nutgrass
Yellow nutgrass
perennial nutgrass

Cytisus monspessulanus
 Cytisus scoparius
 Daucus carota
 Dichrostachys nutans
 Digitalia ischaemum
 Digitalia sanguinalis
 Elephantopus spp.
 Elymus caput-medusae
 Emex australis
 Emex spinosa
 Eupatorium adenophorum
 Eupatorium riparium
 Eupatorium rugosum
 Euphorbia esula
 Euphorbia lucida
 Euphorbia serrata
 Franseria spp.

 Franseria discolor

 Franseria tomentosa

 Galega officianalis
 Gallium spp.
 Gaura spp.
 Gaura coccinea
 Gaura sinuata
 Gaura villosa
 Grevillea banksii
 Halogeton glomeratus
 Helianthus ciliaris
 Hesperocnide sandwicensis
 Hieraceum spp.
 Hoffmanseggia densiflora
 Hordeum spp.
 Hyparrhenia rufa
 Hypericum perforatum

 Hyptis suaveolens
 Imperata cylindrica
 Ipomoea spp.
 Ipomoea hederacea
 Ipomoea purpurea
 Iva axillaris

French broom
 Scotch broom
 wild carrot
 marabu
 crabgrass
 crabgrass
 elephantopus
 medusahead (rye)
 emex
 emex
 mauia pamakani
 hamakua pamakani
 white snakeroot
 leafy spurge
 leafy spurge
 toothed spurge
 franseria
povertyweed
 whiteleaf franseria
silverleaf franseria
bur ragweed
creeping ragweed
povertyweed
 woollyleaf franseria
bur ragweed
 goatsrue
 bedstraw
 gaura
 scarlet gaura
 wavyleaf gaura
 hairy gaura
 kahili flower
 halogeton
 Texas blueweed or blueweed
 stinging nettle
 hawkweed
 pignut or Indian rushpea
 wild barley
 jaragua grass
 St. Johnswort
klamathweed
 wild spikenard
 kogon
 morningglory
 ivyleaf morningglory
 wild morningglory
 povertyweed
mouse-ear povertyweed
sumpweed
deathweed

Lactuca pulchella	blue lettuce or blue-flowering lettuce
Lagascea mollis	acuate
Lepidium campestre	field peppergrass
Lepidium latifolium	perennial peppergrass
	<u>whitetop</u>
Linaria dalmatica	Dalmatian toadflax
Linaria vulgaris	yellow toadflax
Lolium temulentum	darnel
Lychnis alba	white cockle
Mahonia spp.	barberry
Malachra alceaefolia	malachra
Melastoma malabathricum	melastoma
Mikania micrantha	mile-a-minute vine
Mimosa invisa	giant sensitive-plant
Miscanthus japonicus	canegrass
Oryza sativa	red rice
Oxytropis spp.	loco weed
Panicum repens	torpedograss
Passiflora pulchella	wingleaf passion flower
Pennisetum setaceum	fountaingrass
Physalis lobata	purple-flowered groundcherry
Physalis longifolia	perennial groundcherry
<u>Physalis subglabrata</u>	
Piper aduncum	hooked spiked pepper
Plantago spp.	plantain
Plantago aristata	bracted plantain
Plantago lanceolata	buckhorn plantain or buckhorn
Poa annua	annual bluegrass
Polygonum spp.	knotweed, smartweed or ladythumb
Polygonum coccineum	swamp smartweed
Raphanus raphanistrum	wild radish
Rhodomyrtus tomentosa	rhodomyrtus
Rhynchospora spp.	spearhead
Roemeria retracts	Roemer poppy
Rorippa austriaca	Austrian fieldcress
Rudbeckia hirta	blackeyed susan
Rumex spp.	dock
Rumex acetosella	sheep sorrel
Rumex altissimus	smooth dock
Rumex conglomeratus	cluster dock
Rumex crispus	curley dock
Rumex obtusifolius	broadleaf dock
Salsola kali var. tenuifolia	Russian thistle
<u>Salsola pestifer</u>	
Salvia aethiopis	Mediterranean sage
Senecio jacobaea	tansy ragwort
Senecio mikanioides	German ivy
Sesbania exaltata	tall indigo or coffeebean

Setaria faberi	giant foxtail
Sida hederacea	alkali mallow
Solanum carolinense	Carolina horsenettle or horsenettle
	<u>bull nettle</u>
Solanum elaeagnifolium	white horsenettle
	<u>silverleaf nightshade</u>
	<u>purple nightshade</u>
Solanum nigrum	black nightshade
Solanum villosum	hairy nightshade
Solanum rostratum	buffalo bur
Solanum torvum	terongan
Sonchus arvensis	perennial sowthistle
Sorghum spp.	sorghum, perennial, such as but not limited to johnson- grass, sorghum alnum, and perennial sweet sudangrass
	sorghum
Sorghum sp.	sorghum alnum
Sorghum alnum	johnsongrass
Sorghum halepense	Spanish broom
Spartium junceum	woundwort
Stachys palustris	needlegrass
Stipa spp.	witchweed
Striga spp.	witchweed
Striga asiatica	Australian peaweed
Swainsonia salsula	wild marigold
Tagetes minuta	pennycress
Thlaspi arvense	<u>fanweed</u>
	<u>frenchweed</u>
Tribulus terrestris	puncturevine
Triumfetta bartramia	bur bush
Triumfetta semitriloba	Sacramento bur
Ulex europaeus	gorse
Urena lobata	aramino
Verbascum thapsus	mullein
Xanthium spp.	cocklebur
Xanthium orientale (commune)	cocklebur
Zygophyllum fabago	Syrian beancaper

